

(12) INTERNATIONAL APPLICATION PUBLISHED IN PURSUANCE OF THE PATENT CO-OPERATION TREATY (PCT)

(19) WORLD INDUSTRIAL PROPERTY ORGANISATION  
International Bureau

WIPO

(43) International publication date:  
23rd December 2004 (23.12.2004)

(10) International Publication No:  
WO 2004/110801 A1

PCT

(51) International Patent Classification<sup>7</sup> : B60K 15/04,  
B29C 47/06

(74) Attorney: LIPPERT STACHOW, SCHMIDT & PARTNER;  
Frankenforster Strasse 135-137, 51427 Bergisch Gladbach, (DE)

(21) International application No: PCT/DE2004/001082

81) Designated States (*unless otherwise specified for each available national kind of protection right*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW,

(22) International filing date: 25th May 2004  
(25.05.2004)

(25) Language of filing: German

(26) Language of publication: German

(30) Priority Data:  
103 26 642.9 11th June 2003 (11.06.2003) DE

(84) Designated States (*unless otherwise specified for each available regional kind of protection right*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US):  
KAUTEX TEXTRON GMBH & CO KG [DE/DE];  
Kautexstr. 52, 53229 Bonn (DE)

(72) Inventors; and

(75) Inventors/Applicant (only for US): FROITZHEIM, Thomas [DE/DE]; Kölnstr. 51, 53757 St Augustin (DE)  
HÄGER, Frank [DE/DE], Paracelsusstr. 22, 53757 St Augustin (DE), BORCHERT, Matthias [DE/DE]; Alberichstr. 31, 53179 Bonn (DE) ENGELS, Marco [DE/DE]; Alte Bonner Strasse 12, 53229 Bonn (DE)  
REINELT, Georg [DE/DE]; Am Weiher 18 a 53229 Bonn (DE).

Published:

- With International Search Report.

For explanation of the two-letter codes and the other abbreviations reference should be made to the notes ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular issue of the PCT-Gazette.

(54) Title: EXTRUSION BLOW-MOLDED FILLING TUBE MADE OF PLASTIC

(57) Abstract: The invention relates to an extrusion blow-molded filling pipe (1) of plastic material for a motor vehicle fuel tank, which comprises a multi-layer coextrudate and which has respective mouth regions (7) at each end, which each have flanges and/or end faces (8) provided for welding to connecting components. The filling pipe (1) according to the invention is distinguished in that two mouth regions (7) at different ends are calibrated, that is to say they have a defined wall thickness and a defined inside diameter.